APPROVED EL DORADO COUNTY PLANNING COMMISSION

MAY 20, 2022

CUP-R21-0049 AT&T VERIZON COLOCATION CELL TOWER REVISION EXHIBIT F - SITE PLANS

KAREN L. GARNER/ST



SITE NUMBER: CVL03123 PLANNING DEPARTMENT SITE NAME: DRY CREEK JONESVILLE

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DRY CREEK

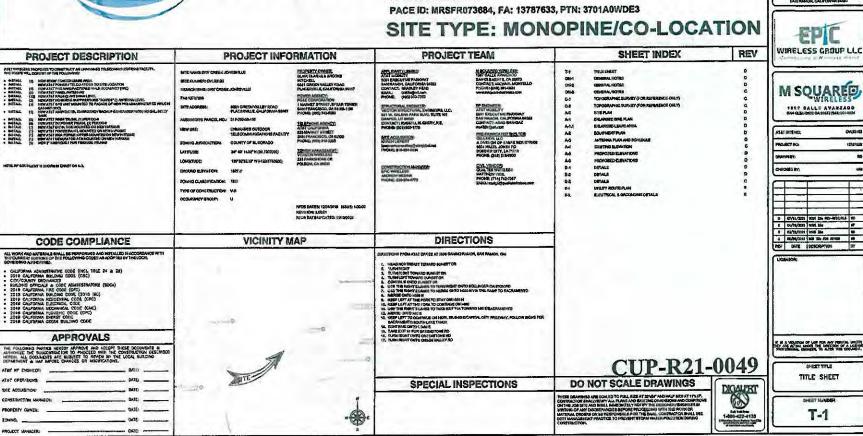
JONESVILLE 8521 GREEN VALLEY ROAD PLACERVILLE, CAUFORNIA

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6521 GREEN VALLEY ROAD PLACERVILLE, CALIFORNIA 95667 JURISDICTION: COUNTY OF EL DORADO

APN: 317-250-56-100



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DRY CREEK JONESVILLE 5521 GREEN VALLEY ROAD PLACERVILLE, CALIFORNIA 95667





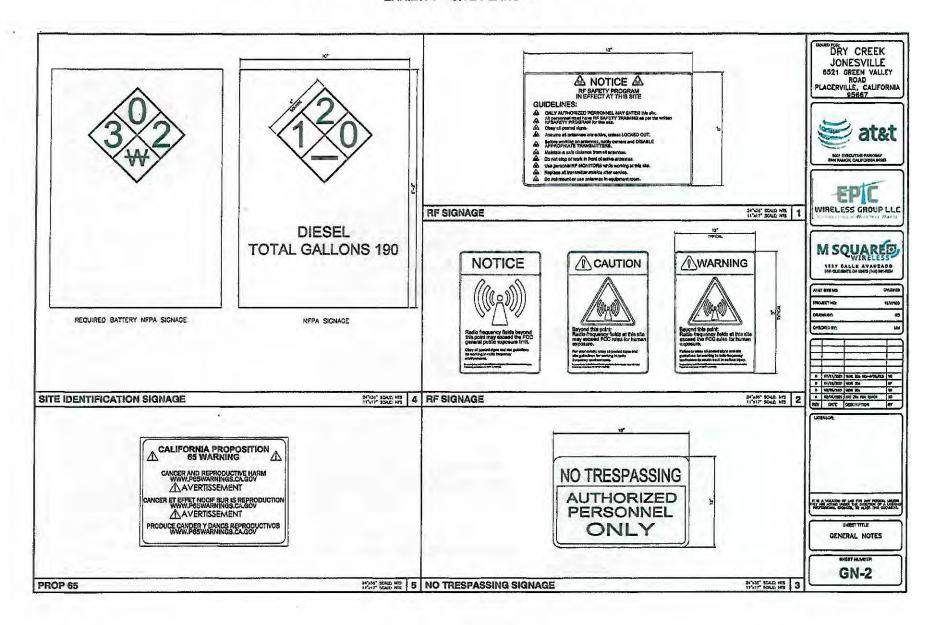


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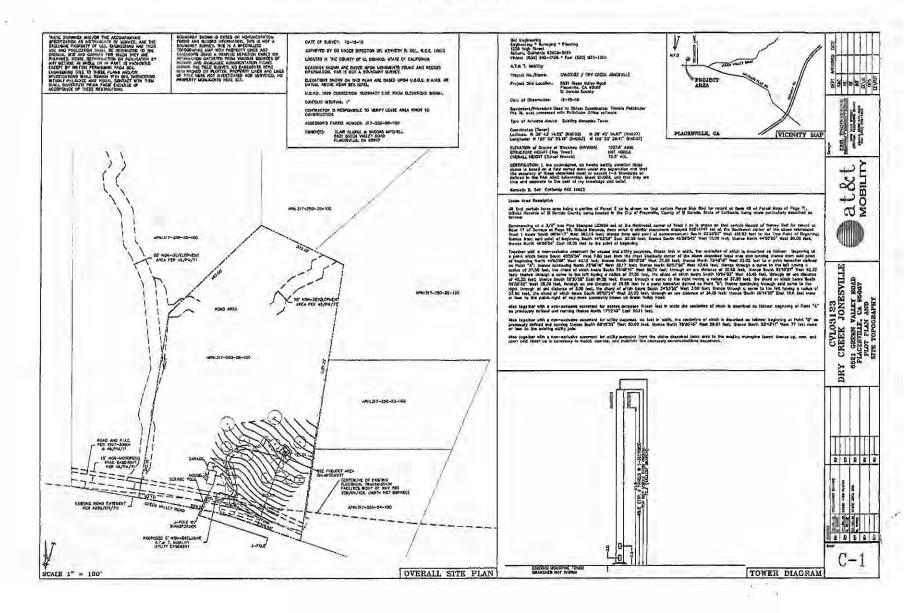
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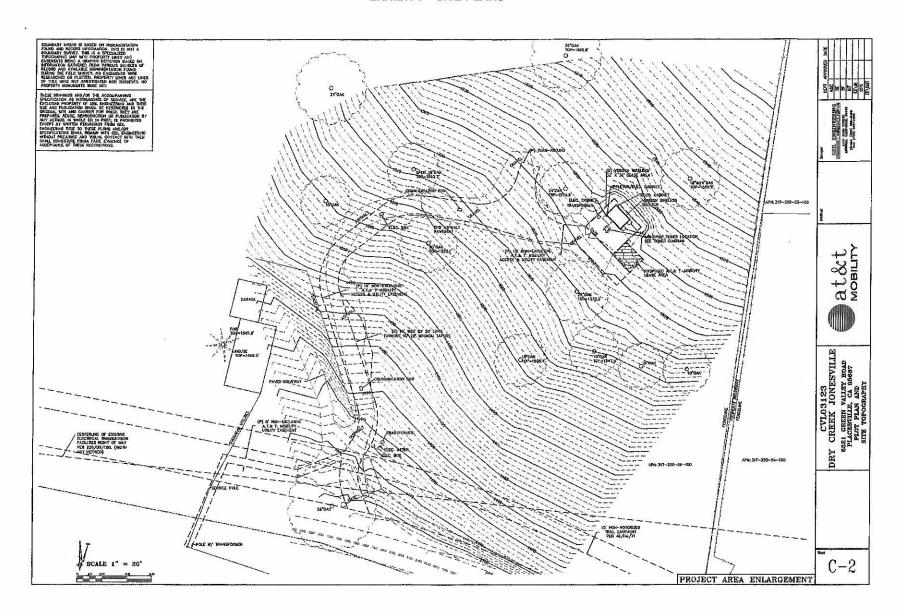
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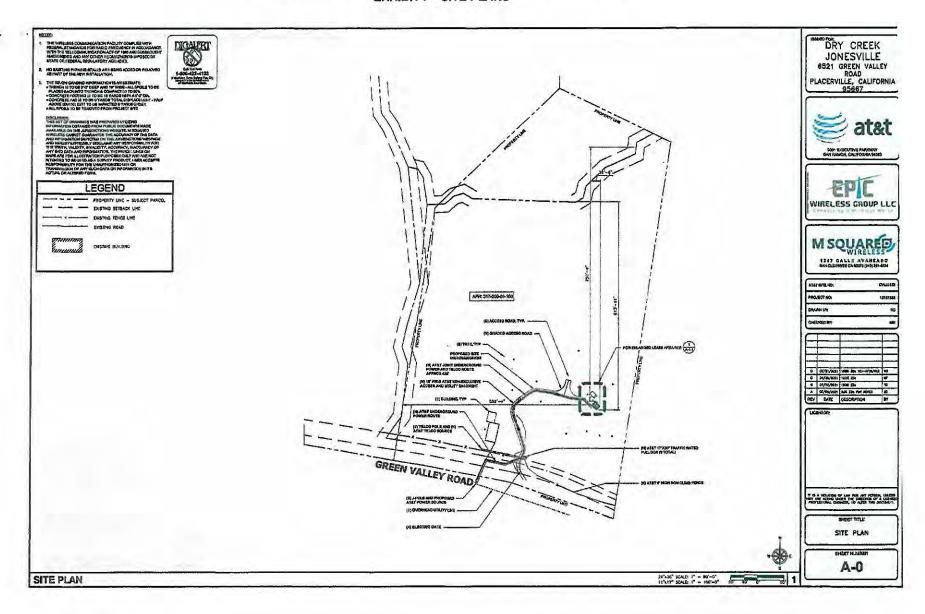
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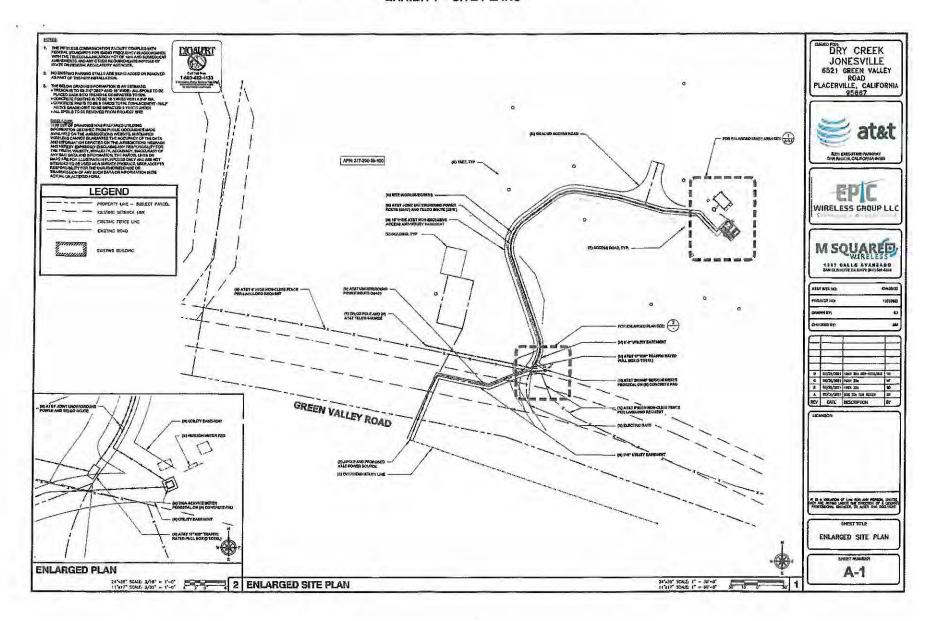
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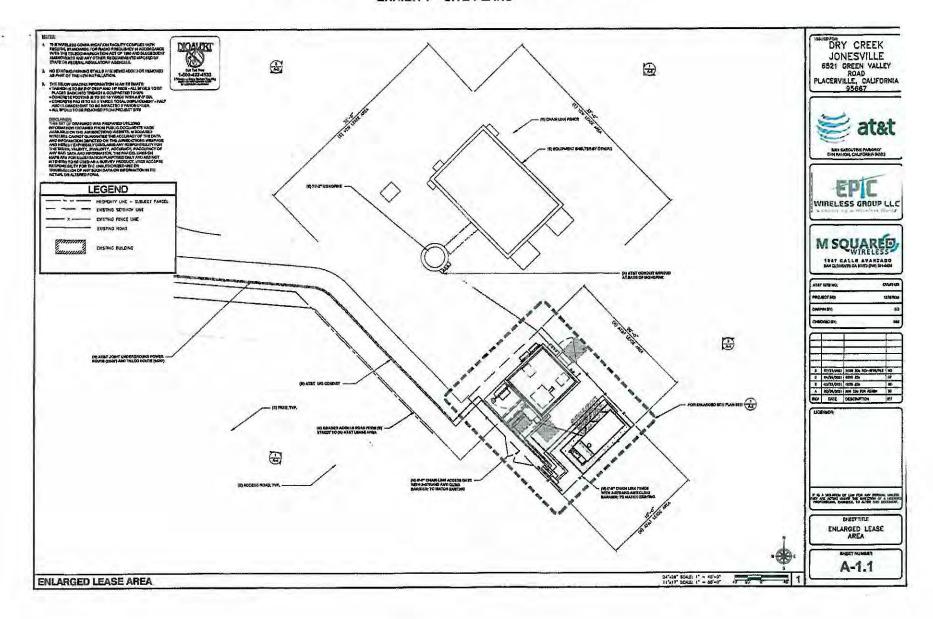
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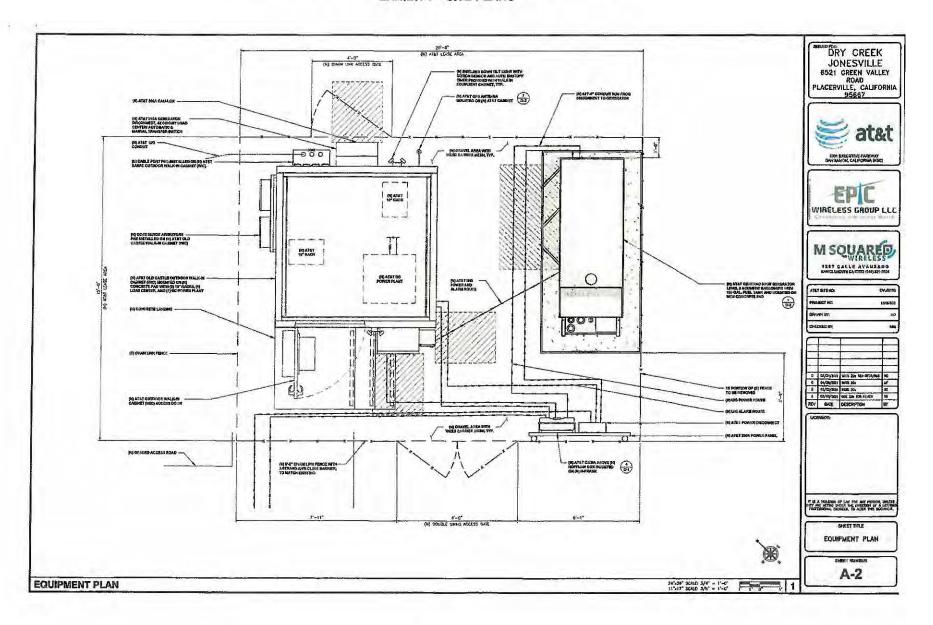


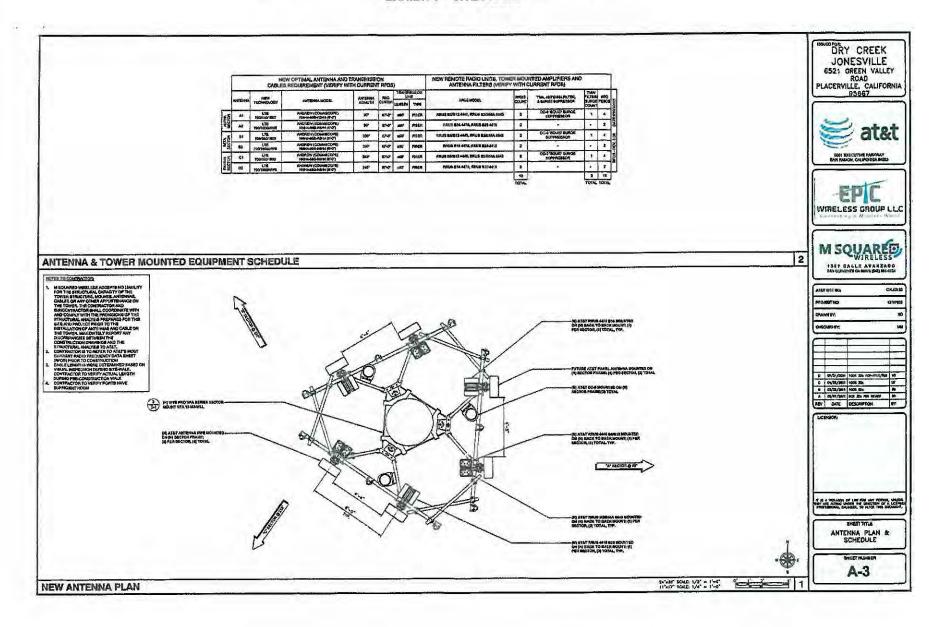


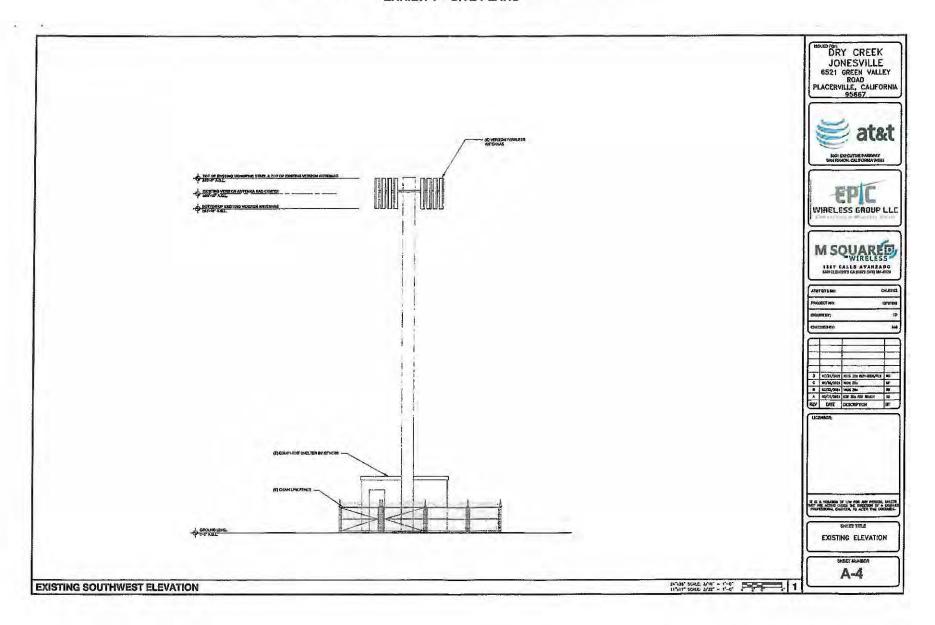


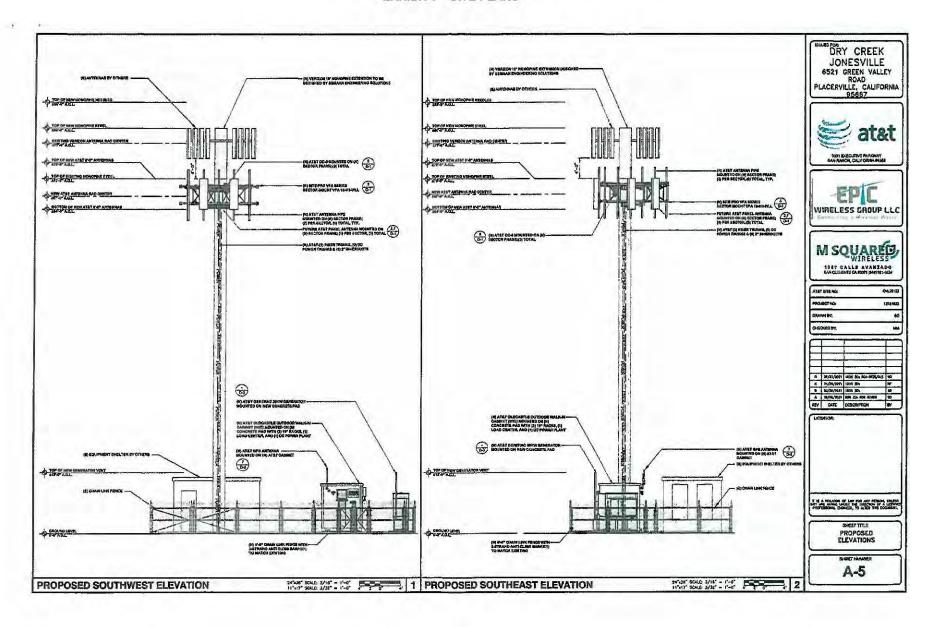


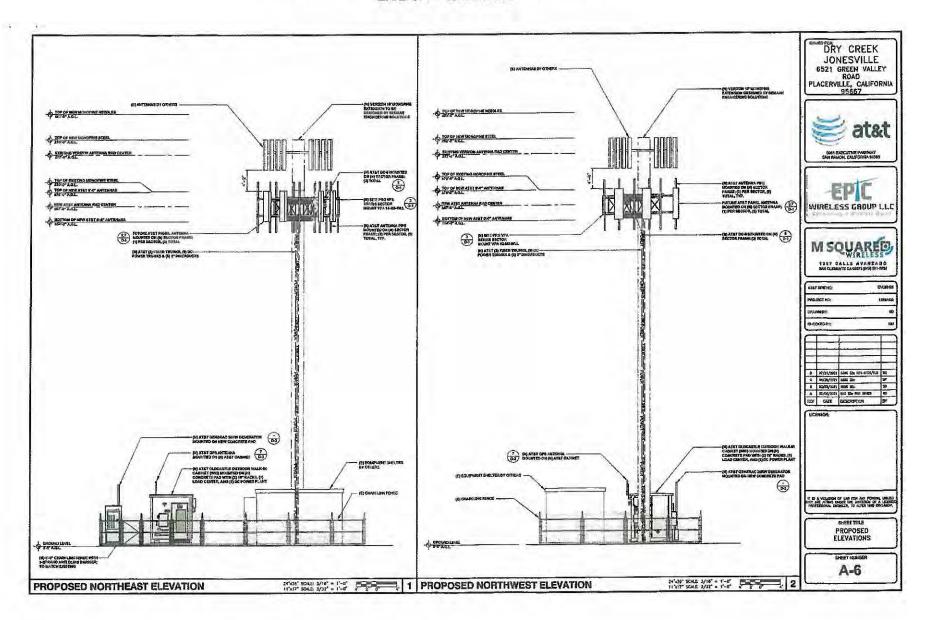


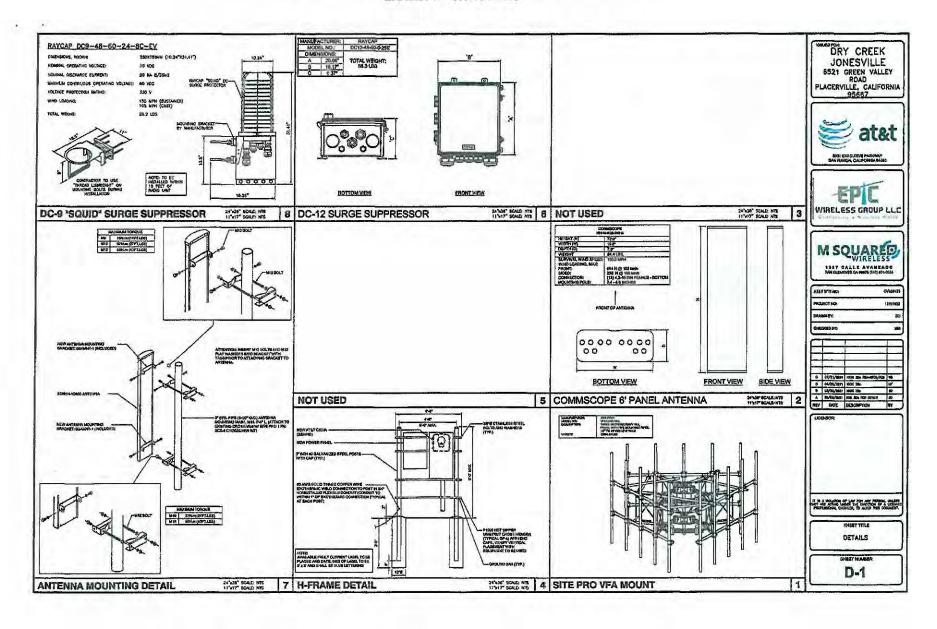


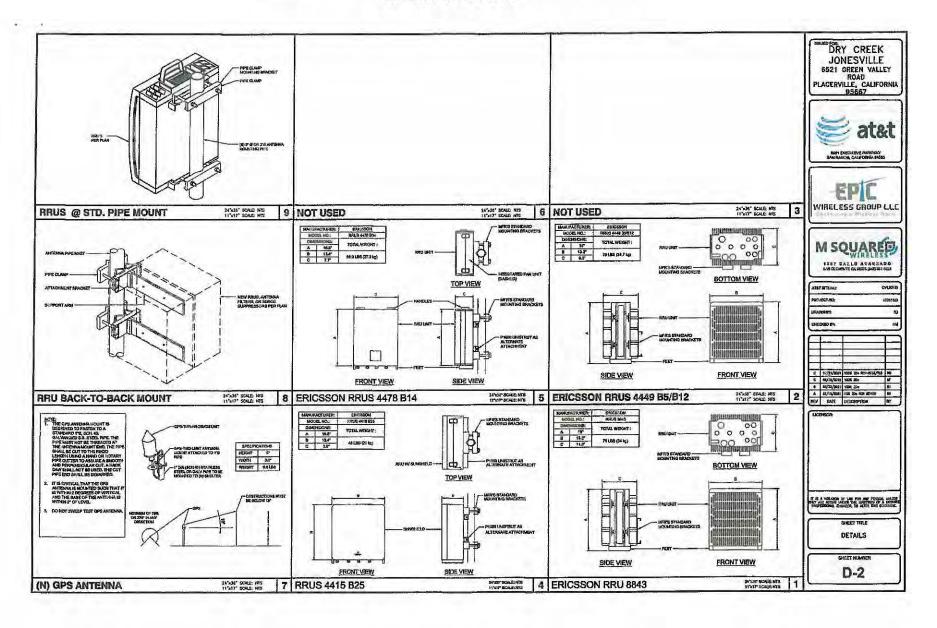


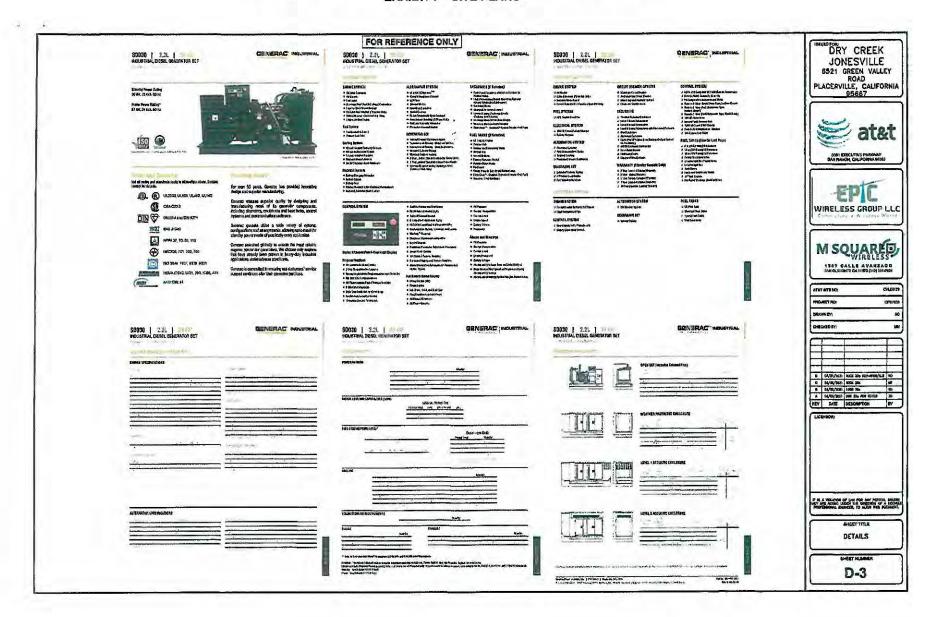












APPROVED EL DORADO COUNTY PLANNING COMMISSION

CUP-R21-0049 AT&T VERIZON COLOCATION CELL TOWER REVISION **EXHIBIT G - SITE PHOTO SIMULATIONS**

MAY 26, 2022 KAREN L. GARNER/ JO

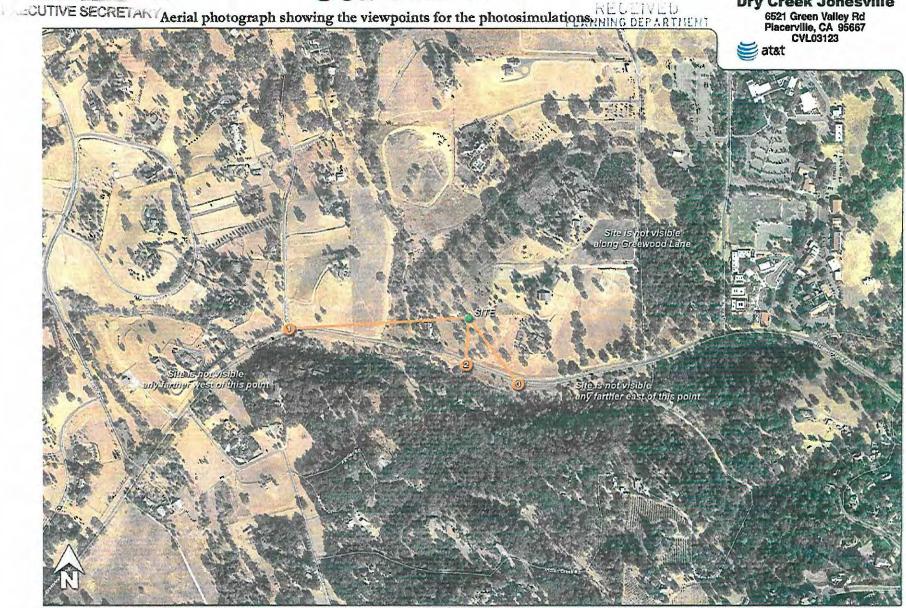
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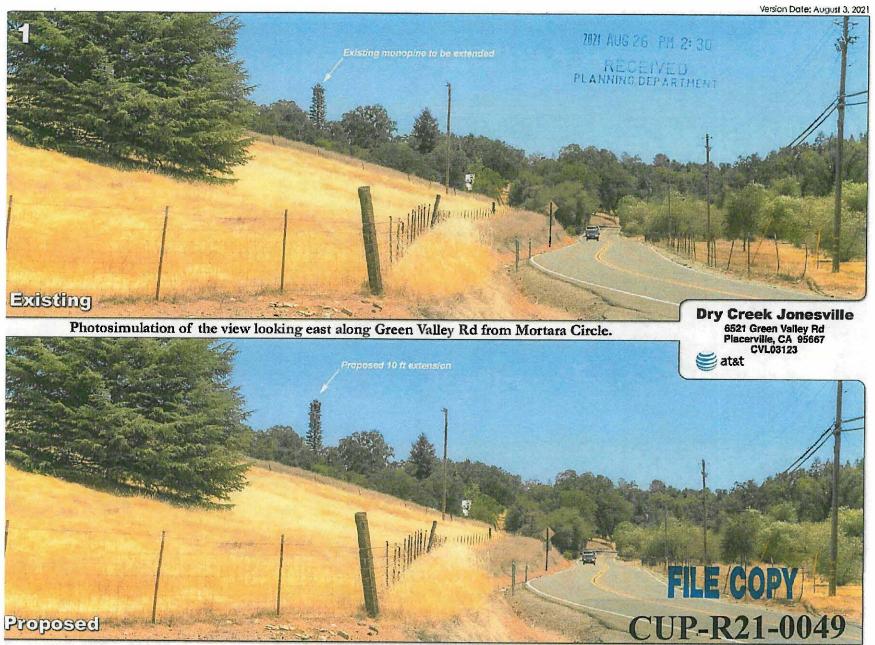
Version Date: August 3, 2021

Dry Creek Jonesville

6521 Green Valley Rd Placerville, CA 95667 CVL03123



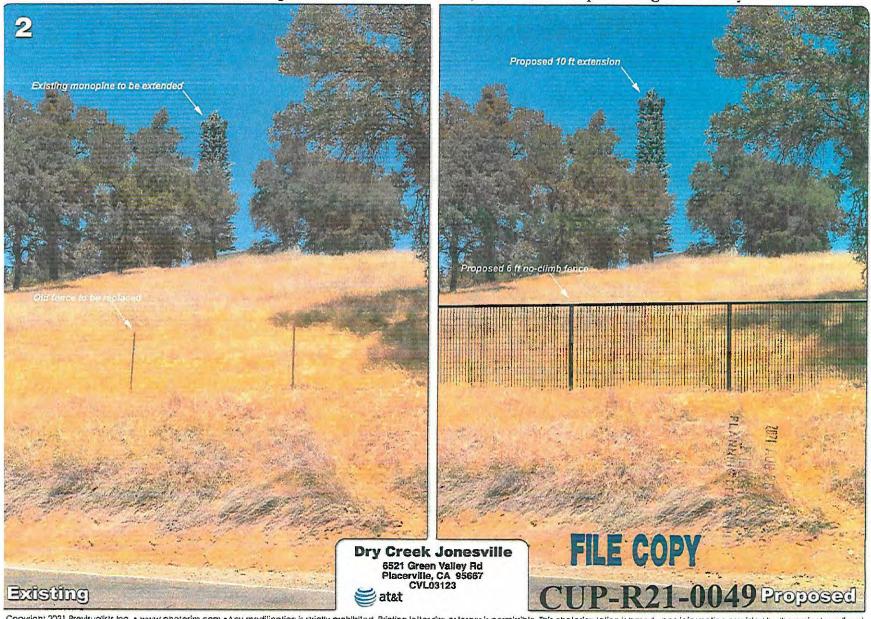
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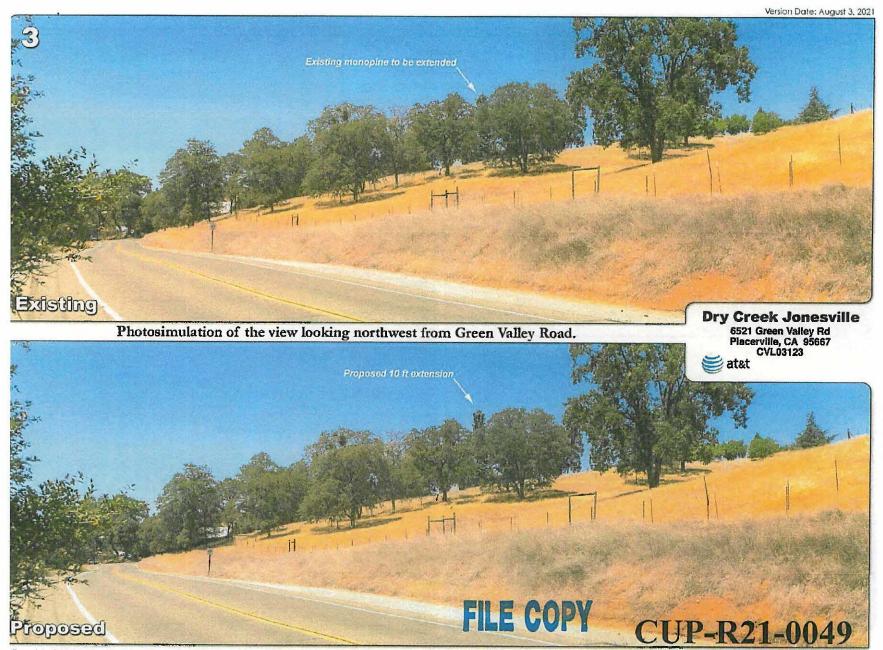
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Version Date: August 3, 2021

Photosimulation of the view looking due north, between the trees, from the nearest point along Green Valley Road.

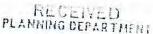


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Radio Frequency Emissions Compliance Report For AT&T Mobility

Site Name:

Dry Creek Jonesville

Address:

6521 Green Valley Road

Placerville, CA

Report Date: August 7, 2019

Site Structure Type: Monopine

Latitude: Longitude:

38,720706 -120.875592

exp 06/30/2020

Project: **New Build**

Compliance Statement

Based on information provided by AT&T Mobility and predictive modeling, the Dry Creek Jonesville installation proposed by AT&T Mobility will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. §§ 1.1307(b)(3) and 1.1310. RF alerting signage and restricting access to the Monopine to authorized climbers that have completed RF safety training is required for Occupational environment compliance. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings.

Certification

I, David H. Kiser, am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in David H. Kiser, P. E. 2015 accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

General Summary

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure ("MPE") limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

APPROVED **EL DORADO COUNTY** PLANNING COMMISSION

EXECUTIVE SECRETARY

CUP-R21-0049

Dry Creek Jonesville - New Site Build 080719

Table 1: FCC Limits

Frequency (MHz)	Limits for General Popular	tion/ Uncontrolled Exposure	Limits for Occupational/ Controlled Exposure			
	Power Density (mW/cm²)	Averaging Time (minutes)	Power Density (mW/cm²)	Averaging Time (minutes)		
30-300	0.2	30		6		
300-1500	f/1500	30	f/300	6		
1500-100,000	1.0	30	5.0	6		

f=Frequency (MHz)

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any location given the spatial orientation and operating parameters of multiple RF sources. The power density in the Far Field of an RF source is specified by OET-65 Equation 5 as follows:

$$S = \frac{EIRP}{4 \cdot \pi \cdot R^2} \, (\text{mW/cm}^2)$$

where EIRP is the Effective Radiated Power relative to an isotropic antenna and R is the distance between the antenna and point of study. Additionally, consideration is given to the manufacturers' horizontal and vertical antenna patterns as well as radiation reflection. At any location, the predicted power density in the Far Field is the spatial average of points within a 0 to 6-foot vertical profile that a person would occupy. Near field power density is based on OET-65 Equation 20 stated as

$$S = \left(\frac{180}{\theta_{RW}}\right) \cdot \frac{100 \cdot P_{ln}}{\pi \cdot R \cdot h} \text{ (mW/cm}^2)$$

where P_{ln} is the power input to the antenna, θ_{BW} is the horizontal pattern beamwidth and h is the aperture length.

Some antennas employ beamforming technology where RF energy allocated to each customer device is dynamically directed toward their location. In the analysis presented herein, predicted exposure levels are based on all beams at full utilization (i.e. full power) simultaneously focused in any direction. As this condition is unlikely to occur, the actual power density levels at ground and at adjacent structures are expected to be less that the levels reported below. These theoretical results represent worst-case predictions as all RF emitters are assumed to be operating at 100% duty cycle.

For any area in excess of 100% General Population MPE, access controls with appropriate RF alerting signage must be put in place and maintained to restrict access to authorized personnel. Signage must be posted to be visible upon approach from any direction to provide notification of potential conditions within these areas. Subject to other site security requirements, occupational personnel should be trained in RF safety and equipped with personal protective equipment (e.g. RF personal monitor) designed for safe work in the vicinity of RF emitters. Controls such as physical barriers to entry imposed by locked doors, hatches and ladders or other access control mechanisms may be supplemented by alarms that alert the individual and notify site management of a breach in access control. Waterford Consultants, LLC recommends that any work activity in these designated areas or in front of any transmitting antennas be coordinated with all wireless tenants.

Dry Creek Jonesville - New Site Build 080719

Analysis

AT&T Mobility proposes the following installation at this location:

- INSTALL (9) NEW AT&T 6'-6" PANEL ANTENNAS
- INSTALL (3) NEW AT&T 6'-0" PANEL ANTENNAS
- INSTALL (3) NEW AT&T RRUS 4415 825 @ANTENNA LEVEL
- INSTALL (3) NEW AT&T RRUS B14 4478 @ANTENNA LEVEL
- INSTALL (6) NEW AT&T RRUS 4449 B5/B12 @ANTENNA LEVEL
- INSTALL (6) NEW AT&T RRUS 8843 B2/B66A@ANTENNA LEVEL
- INSTALL (3) NEW AT&T RRUS E2 829@ ANTENNA LEVEL
- INSTALL (6) NEW AT&T RRUS 32 @ANTENNA LEVEL

The antennas will be mounted on a new 10' extension to a 70-foot monopine with centerlines 77 feet above ground level. The antennas will be oriented towards 90, 210 and 330 degrees. The radio equipment to be operated at this location is capable of a maximum of 40W per 4G channel at 700 MHz, 40W per 4G channel at 850 MHz, 40W per 4G channel at 1900 MHz, 40W per 4G channel at 2300 MHz. Other appurtenances such as GPS antennas, RRUs and hybrid cable below the antennas are not sources of RF emissions. Panel antennas have been installed at this site by other wireless operators. Assumed operating parameters for these antennas are listed in Appendix A.

Dry Creek Jonesville - New Site Build 080719



Figure 1: Antenna Locations

Power density decreases significantly with distance from any antenna. The panel-type antennas to be employed at this site are highly directional by design and the orientation in azimuth and mounting elevation, as documented, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antennas. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.7504% of the FCC General Population limits. Based on the operating parameters in Appendix A, the cumulative power density level at this location from all antennas is 1.0663% of the FCC General Population limits. Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 5.3551% of the FCC General Population limits. Based on the operating parameters in Appendix A, the cumulative power density level at this location from all antennas is 6.5429% of the FCC General Population limits. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings.

Waterford Consultants, LLC recommends posting RF alerting signage with contact information (Caution 2B) at the base of the Monopine to inform authorized climbers of potential conditions near the antennas. These recommendations are depicted in Figure 2.

Dry Creek Jonesville - New Site Build 080719

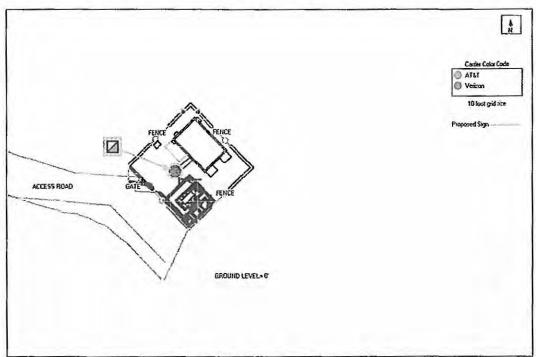


Figure 2: Mitigation Recommendations Caution 2B posted at base of monopine



Dry Creek Jonesville - New Site Build 080719

Appendix A: Assumed Parameters for Antennas Installed by Other Operators

Antenna #:	Carrier.	Manufacturer	Pattern:	Band:	Mech Az (deg):	Mech DT (deg):	H BW (deg):	Length (m):	TPO (W):	Channels:	Loss (dB):	Galn (dBd):	ERP (W):	EIRP (W):	Rad Center (ft);
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14	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	850	0	0	60	1.83	20	8	D	12.6	2938	4821	67
15	Verizon	COMMSCOPE	NHH-65B-R2B 00DT	1900	0	0	69	1.83	40	4	0	15.7	5875	9638	67
16	Verizon	COMMSCOPE	NHH-658-R2B 00DT	2100	0	0	64	1.83	40	4	0	16.2	6701	10993	67
17	Vertzon	COMMSCOPE	NHH-658-R2B 02DT	700	120	0	65	1.83	80	2	0	12,3	2711	4448	67
18	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	850	120	0	60	1.83	20	8	0	12.6	2938	4821	67
19	Verizon	COMMSCOPE	NHH-65E-R2B 00DT	1900	120	0	69	1.83	40	4	0	15.7	5875	9638	67
20	Verizon	COMMSCOPE	NHH-658-R2B 00DT	2100	120	0	64	1,83	40	4	0	16.2	6701	10993	67
21	Verizon	COMMSCOPE	NHH-65B-R2B 02OT	700	240	a	65	1.B3	80	2	0	12.3	2711	4448	67
22	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	850	240	0	60	1.83	20	8	0	12.6	2938	4821	67
23	Verizon	COMMSCOPE	NHH-65B-R2B 00DT	1900	240	0	69	1.83	40	4	0	15.7	5875	9638	67
24	Verizon	COMMSCOPE	NHH-65B-R2B 00DT	2100	240	0	64	1.83	40	4	n .	16.2	6701	10993	67